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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,044		07/10/2001	Takeshi Nishiuchi	010883	6430
23850	7590	04/19/2004		EXAMINER	
		RATZ, QUINTOS	MORGAN, EILEEN P		
1725 K STREET, NW SUITE 1000					
				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006			3723	73	
			DATE MAILED: 04/19/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	_	PR				
,	Application N .	Applicant(s)				
	09/901,044	NISHIUCHI ET AL.				
Offic Action Summary	Examin r	Art Unit				
	Eileen P Morgan	3723				
The MAILING DATE of this communicati n ap Period for Reply	ppears	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
Responsive to communication(s) filed on 16 M This action is FINAL . 2b) ☐ Thi Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, p					
Disposition of Claims						
4) Claim(s) 1-26 and 28 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-26 and 28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/a	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to by the drawing(s) be held in abeyance. So ction is required if the drawing(s) is constant.	ee 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).				
Pri rity under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. nts have been received in Applica ority documents have been recei au (PCT Rule 17.2(a)).	ation No ved in this National Stage				
Attachment(s)	»П	(DTO 440)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>20</u>. 	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C.
 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2,3, 18-21,23-26 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Masayuki-JP '536.

JP '536 discloses a dry surface deposition apparatus comprising a plurality of mesh, porous barrels for accommodating a work piece, horizontally arranged, a surface treating material supply outside the barrels to allow material to into and out of porous barrels, wherein the barrels have a stop (intersections of barrel walls). Claims 23-26 do not further limit the apparatus of claim 1.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 4-8, 13-17 arerejected under 35 U.S.C. 103(a) as being unpatentable over JP '536, alone.

5. In regard to claims 4-8, JP '536 does not show the tubular barrel being in the shape of a triangle, square or rhombus, or convex. However, to change the shape of the barrel would have been obvious to one of ordinary skill in the art at time invention was made in order to accommodate differently shaped workpieces and to produce various machining effects.

In regard to claims 13-17, 28 to have more than one compartment in the barrel would have been obvious at time invention was made to one of ordinary skill in the art in order to individually treat a variety of workpieces simultaneously.

- 6. Claims 9-12 rejected under 35 U.S.C. 103(a) as being unpatentable over JP '536. in view of Pletscher.
- 7. JP '536 discloses a tumbling apparatus having a mesh porous peripheral surface and having a plurality of barrels spaced about a rotational axis. JP '536 does not disclose the barrels having protrusions as stops. However, Pletscher teaches dry surface treating apparatus having a tubular barrel having protrusions (stops) for treating workpieces. Therefore, to provide the barrel of JP '536 with stops, as taught by Pletscher, would have been obvious at time invention was made to one of ordinary skill in the art in order to provide increased tumbling of the workpieces.
- 8. Claim 22 rejected under 35 U.S.C. 103(a) as being unpatentable over JP '536 in view of Kanouse 5,782,677.

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JP '536 does not disclose the barrel used as a blasting chamber. However, Kanouse teaches an apparatus having a tubular barrel for blast treating workpieces. Therefore, it would have been obvious at time invention was made to one of ordinary skill in the art to provide the apparatus of JP '536 with a blasting nozzle, as taught by Kanouse, in order to more thoroughly abrade workpieces.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eileen P Morgan whose telephone number is 703.308.1743. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 703.308.2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EM April 18, 2004

EILEEN P. MORGAN PRIMARY EXAMINER